

10/814,125
updated Search
L/Cook 2/28/07

d his

(FILE 'HOME' ENTERED AT 11:17:00 ON 28 FEB 2007)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, JAPIO' ENTERED AT 11:21:33 ON 28
FEB 2007

L1 20802 S LYSOPHOSPHATIDYLCHOLINE
L2 1046 S L1 AND ATHEROSCLEROSIS?
L3 0 S L1 AND HYPERTWNSION?
L4 39 S L2 AND HYPERTENSION?
L5 1152 S L1 AND (CARDIOVASCULAR?)
L6 304 S L2 AND L5
L7 921 S L1 AND PHOSPHOCHOLINE?
L8 2 S L6 AND L7
L9 2 DUPLICATE REMOVE L8 (0 DUPLICATES REMOVED)
L10 9 S L5 AND L7
L11 9 DUPLICATE REMOVE L10 (0 DUPLICATES REMOVED)
L12 7 S L11 NOT L9
L13 0 S L7 AND (METABOLIC SYNDROME)
L14 0 S L13 AND HEART?
L15 43 S L7 AND HEART?
L16 25 DUPLICATE REMOVE L15 (18 DUPLICATES REMOVED)
L17 17 S L16 AND PD<1999

=>

d his

(FILE 'HOME' ENTERED AT 11:17:00 ON 28 FEB 2007)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, JAPIO' ENTERED AT 11:21:33 ON 28 FEB 2007

L1	20802 S LYSOPHOSPHATIDYLCHOLINE
L2	1046 S L1 AND ATHEROSCLEROSIS?
L3	0 S L1 AND HYPERTWNSION?
L4	39 S L2 AND HYPERTENSION?
L5	1152 S L1 AND (CARDIOVASCULAR?)
L6	304 S L2 AND L5
L7	921 S L1 AND PHOSPHOCHOLINE?
L8	2 S L6 AND L7
L9	2 DUPLICATE REMOVE L8 (0 DUPLICATES REMOVED)
L10	9 S L5 AND L7
L11	9 DUPLICATE REMOVE L10 (0 DUPLICATES REMOVED)
L12	7 S L11 NOT L9
L13	0 S L7 AND (METABOLIC SYNDROME)
L14	0 S L13 AND HEART?
L15	43 S L7 AND HEART?
L16	25 DUPLICATE REMOVE L15 (18 DUPLICATES REMOVED)
L17	17 S L16 AND PD<1999

=>

ANSWER 14 OF 17 MEDLINE on STN

AN 89322894 MEDLINE
DN PubMed ID: 2665794
TI Regulation of phosphatidylcholine metabolism in mammalian hearts
AU Hatch G M; O K; Choy P C
CS Department of Biochemistry, Faculty of Medicine, University of Manitoba,
Winnipeg, Canada.
SO Biochemistry and cell biology = Biochimie et biologie cellulaire,
(1989 Feb-Mar) Vol. 67, No. 2-3, pp. 67-77. Ref: 104
Journal code: 8606068. ISSN: 0829-8211.
CY Canada
DT Journal; Article; (JOURNAL ARTICLE)
(RESEARCH SUPPORT, NON-U.S. GOV'T)
General Review; (REVIEW)
LA English
FS Priority Journals
EM 198908
ED Entered STN: 9 Mar 1990
Last Updated on STN: 9 Mar 1990
Entered Medline: 31 Aug 1989
AB Phosphatidylcholine is the major phospholipid in the mammalian
heart. Over 90% of the cardiac phosphatidylcholine is synthesized
via the CDP-choline pathway. The rate-limiting step of this pathway is
catalyzed by CTP:phosphocholine cytidyltransferase. Current
evidence suggests that phosphatidylcholine biosynthesis in the
heart is regulated by the availability of CTP and the modulation
of cytidyltransferase activity. Phosphatidylcholine is degraded mainly
by the actions of phospholipase A1 and A2, with the formation of
lysophosphatidylcholine. Lysophosphatidylcholine may be
further deacylated by lysophospholipase or reacylated back into the parent
phospholipid by the action of acyltransferase. The accumulation of
lysophosphatidylcholine in the heart may be one of the
biochemical factors for the production of cardiac arrhythmias.
CT Animals
*Heart: PH, physiology
*Mammals: ME, metabolism
Mammals: PH, physiology
*Myocardium: ME, metabolism
*Phosphatidylcholines: ME, metabolism
Phosphatidylcholines: PH, physiology
CN 0 (Phosphatidylcholines)



My List - 0 Help

Search

[Main Search](#) | [Advanced Keyword Search](#) | [Search History](#)
Search: [Refine Search](#)

> You're searching: Scientific and Technical Information Center

Item Information

- **Subscriptions**
- Holdings

Browse Catalog

by title:

- Biochemistry and cel...

MARC Display

Biochemistry and cell biology Biochimie et biologie cellulaire.

Alt. Title: Biochemistry & cell biology
 Biochimie et biologie cellulaire
 Canadian journal of biochemistry and cell biology = Revue canadienne de biochimie et biologie cellulaire
 Revue canadienne de biochimie et biologie cellulaire
 Cover title: Canadian journal of biochemistry and cell biology =

Author: Canadian Biochemical Society.
 National Research Council Canada.
 Canadian Society for Cell Biology.

Imprint: Ottawa : National Research Council of Canada = Conseil national des recherches du Canada, 1986-

URL: <http://search.epnet.com/direct.asp?jid=35G&db=aph> Click here for Online version via Academic Search Premier (ASP). Feb 2001-
<http://proquest.umi.com/pqdweb?RQT=318&VName=PQD&clientid=19649&pmid=36120> Click here for Online version via Proquest. Jan 1, 1998-Present.

Notes: Available on ADONIS, v. 73, no. 1-2 (1995) - v. 80, no. 4 (2002)
 Includes bibliographies.
 Articles in English; summaries in English and French.
 Official journal of the Canadian Biochemical Society and the Canadian Society for Cell Biology.

ISSN: 0829-8211

Subjects: Biological chemistry -- Periodicals.
 Cytology -- Periodicals.

Description: v. : ill. ; 26 cm.

Continues: Canadian journal of biochemistry and cell biology

Subscription Summary

US Patent & Trademark Office

Location: US Patent & Trademark Office
Collection: Biotechnology and Chemical Library Microfilm

Call No.: QP501 .C22 Microfilm
Copy No.: 1
Status: Not Currently Received
Media
Type: film
Microfilm: v. 64 (1986) - v. 77 (1999)

Show all
items

Email: pamela.hoeft@uspto.gov to ask questions or make suggestions.

Horizon Information Portal 3.05

Brought to you by *Scientific and Technical Information Center*

ANSWER 1 OF 1 MEDLINE on STN

AN 92197126 MEDLINE

DN PubMed ID: 1801455

TI [Phospholipid thrombocyte activating factor, its analogs and antagonists: prospects of their use in medicine].
Fosfolipidnyi faktor aktivatsii trombotsitov, ego analogi i antagonisty: perspektivy primeneniia v meditsine.

AU Kulikov V I; Muzia G I

SO Vestnik Akademii meditsinskikh nauk SSSR, (1991) No. 10, pp. 13-7. Ref: 37

Journal code: 7506153. ISSN: 0002-3027.

CY USSR

DT (ENGLISH ABSTRACT)
(IN VITRO)
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)

LA Russian

FS Priority Journals

EM 199204

ED Entered STN: 9 May 1992
Last Updated on STN: 9 May 1992
Entered Medline: 21 Apr 1992

AB Experimental data on the biological activity of phospholipid platelet-activation factor (PAF), its structural analogs and antagonists are discussed. The prospects of the use of PAF and PAF antagonists in medicine are under consideration. The conclusion is drawn that PAF antagonists may serve the basis for the development of highly potent drugs of new generation.

CT Azepines: DU, diagnostic use
Azepines: PD, pharmacology
*Azepines: TU, therapeutic use
*Diterpenes
Fibrinolytic Agents: PD, pharmacology
*Fibrinolytic Agents: TU, therapeutic use
Ginkgolides
Humans
Lactones: DU, diagnostic use
Lactones: PD, pharmacology
*Lactones: TU, therapeutic use
*Lysophosphatidylcholines: PD, pharmacology
*Platelet Activating Factor: AA, analogs & derivatives
Platelet Activating Factor: AI, antagonists & inhibitors
*Platelet Activating Factor: PH, physiology
Platelet Activation: DE, drug effects
*Platelet Activation: PH, physiology
Platelet Aggregation: DE, drug effects
*Platelet Aggregation: PH, physiology
Platelet Function Tests
Thrombosis: BL, blood
Thrombosis: DT, drug therapy
*Thrombosis: ET, etiology
Triazoles: DU, diagnostic use
Triazoles: PD, pharmacology
*Triazoles: TU, therapeutic use

RN 105219-56-5 (WEB 2086); 99796-69-7 (ginkgolide B)

CN 0 (1-acylglycerolphosphorylcholine); 0 (1-alkyl-2-acyl-sn-glycero-3-phosphocholine); 0 (Azepines); 0 (Diterpenes); 0 (Fibrinolytic Agents); 0 (Ginkgolides); 0 (Lactones); 0 (Lysophosphatidylcholines**
*); 0 (Platelet Activating Factor); 0 (Triazoles)

=>

ANSWER 2 OF 22 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

AN 1990:514666 BIOSIS

DN PREV199090131942; BA90:131942

TI HYDROLYSIS OF 2 ACYL-SN-GLYCERO-3-PHOSPHOCHOLINES IN GUINEA-PIG
HEART MITOCHONDRIA.

AU BADIANI K [Reprint author]; PAGE L; ARTHUR G

CS DEP BIOCHEM MOL BIOL, FAC MED, UNIV MANITOBA, 770 BANNATYNE AVE, MANIT,
CANADA R3E 0W3

SO Biochemistry and Cell Biology, (1990) Vol. 68, No. 9, pp.
1090-1095.
CODEN: BCBIEQ. ISSN: 0829-8211.

DT Article

FS BA

LA ENGLISH

ED Entered STN: 19 Nov 1990
Last Updated on STN: 19 Nov 1990

AB Although both 2-acyl-sn-glycero-3-phosphocholine and
1-acyl-sn-glycero-3-phosphocholine may be produced from
phosphatidylcholine hydrolysis, studies on the former have lagged behind
that of the latter. In this study a lysophospholipase A2 that hydrolyses
2-acyl-sn-glycero-3-phosphocholine has been characterized in
guinea pig heart mitochondria. The lysophospholipase A2 activity was not
dependent on Ca²⁺ and was inhibited differentially by saturated and
unsaturated fatty acids. This lysophospholipase A2 activity was able to
discriminate among different molecular species of 2-acyl-sn-glycero-3-
phosphocholines when they were presented individually or in pairs.
The order of decreasing rates of hydrolysis of different molecular species
of 2-lysophosphatidylcholines, when the substrates were
presented singly, was 18:2 > 20:4 > 18:1 > 16:0. A differential
inhibition of the rate of hydrolysis of the individual substrates was
observed when the substrates were presented in pairs. The degree of
inhibition was dependent on the molar ratio of the mixed substrates. The
characteristics of the enzyme suggest that involvement in the selective
release of fatty acids from mitochondrial phosphatidylcholine would depend
on a high selectivity of phospholipase A1 for different molecular species
of phosphatidylcholine. A lysophospholipase A1 activity was also
characterized in the mitochondria with a distinct acyl specificity from
the lysophospholipase A2. Other characteristics of the two
lysophospholipases suggest that the two reactions are not catalyzed by the
same enzyme.

CC Biochemistry studies - Proteins, peptides and amino acids 10064
Biochemistry studies - Lipids 10066
Enzymes - Physiological studies 10808
Anatomy and Histology - Microscopic and ultramicroscopic anatomy 11108
Metabolism - Lipids 13006
Cardiovascular system - Physiology and biochemistry 14504

IT Major Concepts
Cardiovascular System (Transport and Circulation); Enzymology
(Biochemistry and Molecular Biophysics); Metabolism; Morphology

IT Miscellaneous Descriptors
FATTY ACID RELEASE

ORGN Classifier
Caviidae 86300
Super Taxa
Rodentia; Mammalia; Vertebrata; Chordata; Animalia
Taxa Notes
Animals, Chordates, Mammals, Nonhuman Vertebrates, Nonhuman Mammals,
Rodents, Vertebrates

ANSWER 2 OF 22 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

AN 1990:514666 BIOSIS

DN PREV199090131942; BA90:131942

TI HYDROLYSIS OF 2 ACYL-SN-GLYCERO-3-PHOSPHOCHOLINES IN GUINEA-PIG
HEART MITOCHONDRIA.

AU BADIANI K [Reprint author]; PAGE L; ARTHUR G

CS DEP BIOCHEM MOL BIOL, FAC MED, UNIV MANITOBA, 770 BANNATYNE AVE, MANIT,
CANADA R3E 0W3

SO Biochemistry and Cell Biology, (1990) Vol. 68, No. 9, pp.
1090-1095.
CODEN: BCBIEQ. ISSN: 0829-8211.

DT Article

FS BA

LA ENGLISH

ED Entered STN: 19 Nov 1990
Last Updated on STN: 19 Nov 1990

AB Although both 2-acyl-sn-glycero-3-phosphocholine and
1-acyl-sn-glycero-3-phosphocholine may be produced from
phosphatidylcholine hydrolysis, studies on the former have lagged behind
that of the latter. In this study a lysophospholipase A2 that hydrolyses
2-acyl-sn-glycero-3-phosphocholine has been characterized in
guinea pig heart mitochondria. The lysophospholipase A2 activity was not
dependent on Ca²⁺ and was inhibited differentially by saturated and
unsaturated fatty acids. This lysophospholipase A2 activity was able to
discriminate among different molecular species of 2-acyl-sn-glycero-3-
phosphocholines when they were presented individually or in pairs.
The order of decreasing rates of hydrolysis of different molecular species
of 2-lysophosphatidylcholines, when the substrates were
presented singly, was 18:2 > 20:4 > 18:1 > 16:0. A differential
inhibition of the rate of hydrolysis of the individual substrates was
observed when the substrates were presented in pairs. The degree of
inhibition was dependent on the molar ratio of the mixed substrates. The
characteristics of the enzyme suggest that involvement in the selective
release of fatty acids from mitochondrial phosphatidylcholine would depend
on a high selectivity of phospholipase A1 for different molecular species
of phosphatidylcholine. A lysophospholipase A1 activity was also
characterized in the mitochondria with a distinct acyl specificity from
the lysophospholipase A2. Other characteristics of the two
lysophospholipases suggest that the two reactions are not catalyzed by the
same enzyme.

CC Biochemistry studies - Proteins, peptides and amino acids 10064
Biochemistry studies - Lipids 10066
Enzymes - Physiological studies 10808
Anatomy and Histology - Microscopic and ultramicroscopic anatomy 11108
Metabolism - Lipids 13006
Cardiovascular system - Physiology and biochemistry 14504

IT Major Concepts
Cardiovascular System (Transport and Circulation); Enzymology
(Biochemistry and Molecular Biophysics); Metabolism; Morphology

IT Miscellaneous Descriptors
FATTY ACID RELEASE

ORGN Classifier
Caviidae 86300
Super Taxa
Rodentia; Mammalia; Vertebrata; Chordata; Animalia
Taxa Notes
Animals, Chordates, Mammals, Nonhuman Vertebrates, Nonhuman Mammals,
Rodents, Vertebrates


[My List - 0](#) [Help](#)

Search

[Main Search](#) | [Advanced Keyword Search](#) | [Search History](#)
Search: [Refine Search](#)

> You're searching: Scientific and Technical Information Center

Item Information

- Subscriptions
- Holdings

Browse Catalog

by title:

- Biochemistry and cel...

MARC Display

Biochemistry and cell biology Biochimie et biologie cellulaire.

Alt. Title: Biochemistry & cell biology
 Biochimie et biologie cellulaire
 Canadian journal of biochemistry and cell biology = Revue canadienne de biochimie et biologie cellulaire
 Revue canadienne de biochimie et biologie cellulaire
 Cover title: Canadian journal of biochemistry and cell biology =

Author: Canadian Biochemical Society.
 National Research Council Canada.
 Canadian Society for Cell Biology.

Imprint: Ottawa : National Research Council of Canada = Conseil national des recherches du Canada, 1986-

URL: <http://search.epnet.com/direct.asp?jid=35G&db=aph> Click here for Online version via Academic Search Premier (ASP). Feb 2001-
<http://proquest.umi.com/pqdweb?RQT=318&VName=PQD&clientid=19649&pmid=36120> Click here for Online version via Proquest. Jan 1, 1998-Present.

Notes: Available on ADONIS, v. 73, no. 1-2 (1995) - v. 80, no. 4 (2002)
 Includes bibliographies.
 Articles in English; summaries in English and French.
 Official journal of the Canadian Biochemical Society and the Canadian Society for Cell Biology.

ISSN: 0829-8211

Subjects: Biological chemistry -- Periodicals.
 Cytology -- Periodicals.

Description: v. : ill. ; 26 cm.

Continues: Canadian journal of biochemistry and cell biology

[Add to my list](#)

Subscription Summary

US Patent & Trademark Office

Location: US Patent & Trademark Office
Collection: Biotechnology and Chemical Library Microfilm

Call No.: QP501 .C22 Microfilm
Copy No.: 1
Status: Not Currently Received
Media Type: film
Microfilm: v. 64 (1986) - v. 77 (1999)

Show all
items

Email: pamela.hoeft@uspto.gov to ask questions or make suggestions.

Horizon Information Portal 3.05

Brought to you by *Scientific and Technical Information Center*